

8 Trigonometry

Practice

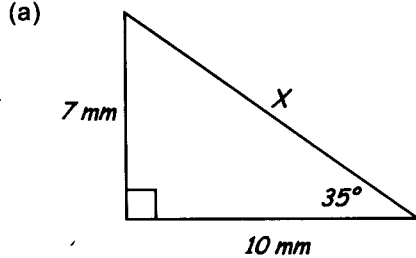
- Determine the value of each ratio to four decimal places.

(a) $\sin 35^\circ$	(c) $\tan 45^\circ$	(e) $\sin 18^\circ$	(g) $\cos 88^\circ$
(b) $\cos 60^\circ$	(d) $\cos 75^\circ$	(f) $\tan 38^\circ$	(h) $\sin 7^\circ$
- Determine the size of $\angle A$ to the nearest degree.

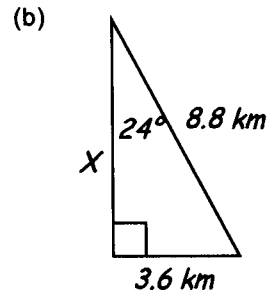
(a) $\sin A = 0.5299$	(c) $\tan A = 4.3315$	(e) $\sin A = 0.2419$	(g) $\cos A = 0.7071$
(b) $\cos A = 0.4226$	(d) $\cos A = 0.5000$	(f) $\tan A = 0.0875$	(h) $\sin A = 0.8829$
- Solve for x to one decimal place.

(a) $\sin 35^\circ = x/8$	(c) $\tan 20^\circ = x/19$	(e) $\sin 10^\circ = 12/x$
(b) $\cos 70^\circ = x/15$	(d) $\tan 55^\circ = 8/x$	(f) $\sin 75^\circ = 5/x$
- Solve for $\angle B$ to the nearest degree.

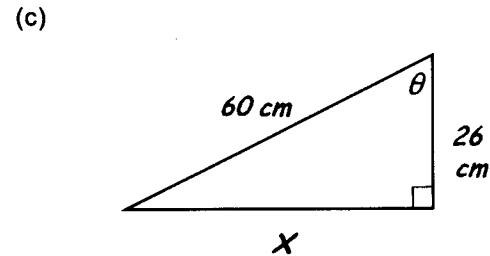
(a) $\cos B = 3/8$	(c) $\tan B = 15/9$	(e) $\tan B = 25/12$
(b) $\sin B = 7/8$	(d) $\cos B = 16.8/21.5$	(f) $\sin B = \frac{1}{2}$
- Use two different ^{TRIG.} methods to find the value of the unknown in each triangle. Round your answer to one decimal place.



Ans. $x = 12.2 \text{ mm}$



$x = 8.0 \text{ km}$



$x = 54 \text{ cm}$

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- | | |
|------------|------------|
| (a) 0.5736 | (e) 0.3090 |
| (b) 0.5000 | (f) 0.7813 |
| (c) 1.0000 | (g) 0.0349 |
| (d) 0.2588 | (h) 0.1219 |

- | | |
|---------|---------|
| (a) 32° | (e) 14° |
| (b) 65° | (f) 5° |
| (c) 77° | (g) 45° |
| (d) 60° | (h) 62° |
- | | |
|---------|----------|
| (a) 4.6 | (d) 5.6 |
| (b) 5.1 | (e) 69.1 |
| (c) 6.9 | (f) 5.2 |
- | | |
|---------|---------|
| (a) 68° | (d) 39° |
| (b) 61° | (e) 64° |
| (c) 59° | (f) 30 |